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**Beal**

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(54) **FREE-FLOATING ALTITUDE STABILIZED SYSTEM**

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\* cited by examiner

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(57) **ABSTRACT**

A free-floating altitude stabilized system is provided. Independently energizable wire coils are linearly aligned with one another in a vertical direction on a buoyant body. An induced magnetic field is generated by any of the wire coils that are energized. A float housing a magnet is coupled to the body in such a way that it is capable of independent movement relative thereto. A control system energizes a selected one or more of the wire coils in such a way the magnet's magnetic field and wire coil's induced magnetic field react with one another to generate movement of the float vertically in a direction that is the same as a vertical component of wave motion.

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(58) **Field of Search** ..... 367/12, 4; 441/21

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10 Claims, 2 Drawing Sheets

